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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,383	10/31/2003	Ihab Soliman	FMC 1626 PUS/202-1016	3252
28395	7590 12/02/2004		EXAMINER	
BROOKS KUSHMAN P.C./FGTL 1000 TOWN CENTER			BROADHEAD, BRIAN J	
22ND FLOO	*· · · · ·		ART UNIT	PAPER NUMBER
	D, MI 48075-1238		3661	

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/699,383	SOLIMAN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Brian J. Broadhead	3661			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)🛛	1) Responsive to communication(s) filed on <u>31 October 2003</u> .					
2a)□	This action is <b>FINAL</b> . 2b)⊠ This	s action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims		•			
(4)⊠ (5)⊠	Claim(s) 1-40 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 1-11,37,39 and 40 is/are allowed.  Claim(s) 12-36 and 38 is/are rejected.  Claim(s) is/are objected to.					
Application Papers						
	The specification is objected to by the Examine	er				
•	0)⊠ The drawing(s) filed on <u>31 October 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.			
Priority (	ınder 35 U.S.C. § 119		·			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
1) Notic	e of References Cited (PTO-892)	4) Interview Summary				
3) 🔯 Infori	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>10-31-03</u> .	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

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#### **DETAILED ACTION**

## Specification

1. The disclosure is objected to because of the following informalities: On page 18. line 21, the intermediate clutch pressure is disclosed as being reference number 112. Which clutch is this intermediate clutch? On page 23, on lines 5-6, the "two controllers" for each gearset are disclosed but it is not disclosed where in the drawing the controllers are located.

Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 12-36, and 38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- Claim 12 recites the limitation "the shift progression information" in line 29.
   There is insufficient antecedent basis for this limitation in the claim.
- 4. Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: On line 31, the limitation "measuring actual input speed" fails to disclose which input is being measured. It is it first or second gearset?

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5. Claim 12 recites the limitation "the interactive pressure value" in line 15. There is insufficient antecedent basis for this limitation in the claim.

- 6. Claim 13 recites the limitation "the controller for the one gearset" in line 1. There is insufficient antecedent basis for this limitation in the claim.
- 7. Claim 13 recites the limitation "the shift progression information" in line 5. There is insufficient antecedent basis for this limitation in the claim.
- 8. Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: On line 7, the limitation "measuring actual input speed" fails to disclose which input is being measured. It is it first or second gearset?
- 9. Claim 27 recites the limitation "the one gearset" in lines 4-5. There is insufficient antecedent basis for this limitation in the claim.
- 10. Claim 27 recites the limitation "the second gearset" in lines 7-8. There is insufficient antecedent basis for this limitation in the claim.
- 11. Claim 27 recites the limitation "the other friction element" in lines 21-22. There is insufficient antecedent basis for this limitation in the claim. There are multiple friction elements in each gearset and this limitation does not make it clear which ones are being changed or monitored.

## Allowable Subject Matter

12. Claims 1-11, 37, 39, and 40 are allowed.

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13. Claims 12-36, and 38 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

14. The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose the first and second controller having dynamic interaction compensation whereby a pressure change in one of the friction elements will command a pressure change in the other friction element during a time progression of the swapshift. Previous inventions have used input and output speeds of the gearsets to operate a closed loop pressure control, the current invention improves upon the prior art by also using the pressure change of the friction element in each gearset as an input to the pressure determination of the friction element of the other gearset.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Broadhead whose telephone number is 703-308-9033. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 703-305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SIZ

BJB

THOMAS G. BLACK
THOMAS G. BLACK
EXPERVISORY PATENT EXAMINER
CROUP 7600